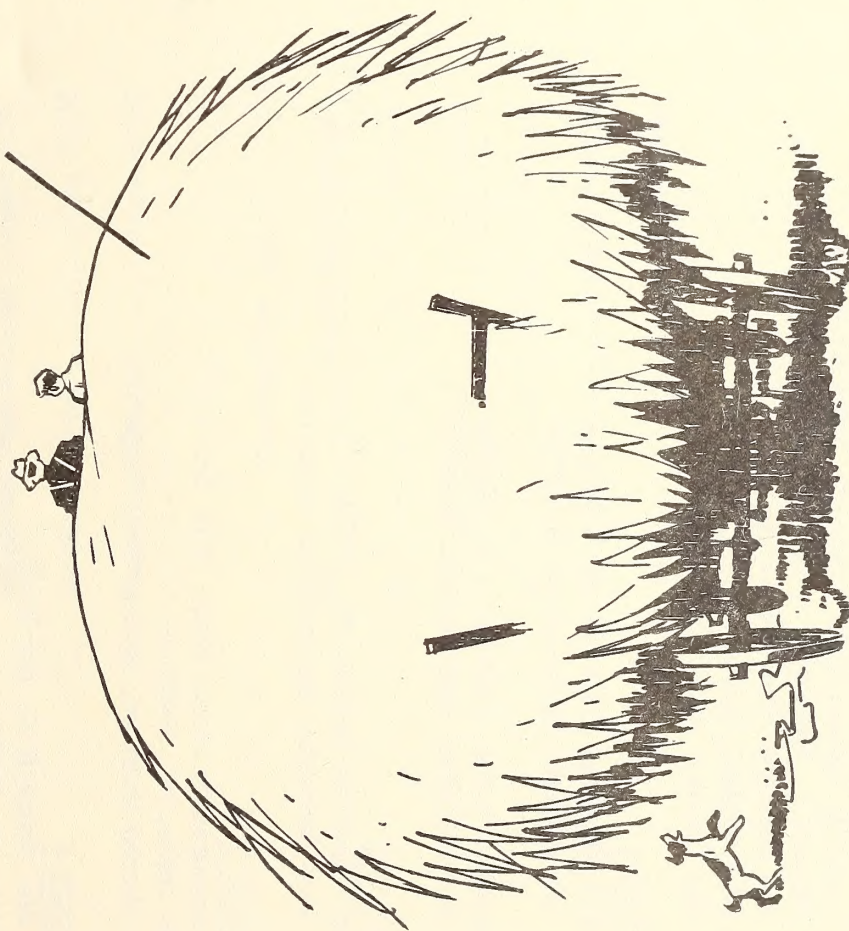


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MONTANA COMMERCIAL FEED REPORT

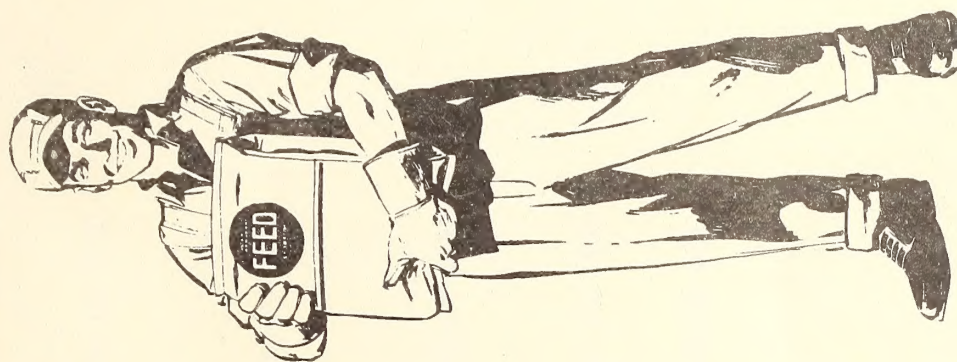


The Department of Agriculture, State of Montana, Helena, Montana

Keith Kelly, Director
Roy Bjornson, Administrator

Volume 31, 1984

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MONTANA DEPARTMENT OF AGRICULTURE

Plant Industry Division

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Ted Hamilton, Agricultural Inspector

This report consists of the following sections:

Commercial Feed Analyses.....	Pages 1-24
Pet Food Analyses.....	Pages 24-28
Statistical Data.....	Pages 29-30

Abbreviations used:

NPN.....	Non-Protein Nitrogen
C.....	Claimed
F.....	found
ppm.....	Parts per million
*.....	out of tolerance
.....	less than

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT	MINERALS (C)		(1)VITAMINS—USP UNITS (C)			(F)
			(C)	(F)		(C)	(F)	(C)	(F)	(C)	
Absarokee Ranch Supply P.O. Box 38 Absarokee, MT 59001	Absarokee	3401				Calcium 12-14 Phosphorus 15 Selenium 0.002	14.4 15.5 0.002				(F) (F) (F)
Gestation Range Mineral											
Agri Basics P.O. Box 2548 Great Falls, MT 59403											
Molas-O-Block 14	Belgrade	0108	14.0	14.6	Fat Fiber	1.5 10.0	1.5 10.6	0.9 0.7 14.9	20000	(1)Vit. A	26000
Basic 20 (Cube)	Belgrade	0109	20.0	22.2							
			6.6NPN	5.8	Fat Fiber	1.0 15	2.8 10.1	1.5 0.5 1.6	20000	(1)Vit. D	23000
Whole Cottonseed Replacer Molas-O-Block 20AN	Belgrade Belgrade	0110 2253	18 20	18 20				0.9 1.0 17.3			37000 2800
Basic B 1200 13% Dairy Pellet	Belgrade Belgrade	2254 2252	12.0 13.0	19.7 11.6				0.5 0.7			
Body Builder #3 Bull	Belgrade	2255	12	12.1						(1)Vit. A	7300
			.5NPN	0.6							
Basic MO 120 16% Rabbit Complete 18% Calf Starter	Belgrade Belgrade Belgrade	2258 2257 2256	12 16.0 18.0	14.1 16.5 19.6				3.6 0.6 1.3	9000	(1)Vit. A	7300
Molos-O-Cake 14(Cube)	Belgrade	2251	14.0	12.9*							
38% Poultry Conc. 27% Goose Breeder Supp.	Great Falls Great Falls	2423 2424	38.0 27.0	38.2 27.5				4.0 2.0	20000 2000	(1)Vit. A (1)Vit. D	18000 2300

37% Swine Gr./Fin. Conc.	Conrad	2439	37.0	33.5	Calcium 5.4-6.2 Phosphorus 1.7 NaCl 1.9-2.5 Calcium 0.7-0.8 Phosphorus .05 Calcium 3.0-3.2 Phosphorus 1.0 NaCl 1.3-1.7	7.1 2.0 2.5 1.1* 0.7 3.4 1.1 2.0	(1)Vit. A (1)Vit. D	30000 3000	39000 7000
14% Calf Grower	Conrad	2441	14.0	14.3					
Sho-Queene Topper	Conrad	2440	25.0	24.9					
40% Feedlot Grower SVP	Conrad	2422	40.0 18.5NPN	35.6* 15.6					
Molas-O-Cake 20 (Cube)	Conrad	2443	20.0 4.9NPN	19.6 5.0	Calcium 3.4-3.7 Phosphorus 1.2 NaCl 6.0-6.5	3.1 1.5 6.1	(1)Vit. A (1)Vit. D	30000 3000	35000 4200
16% Rabbit Complete Ani-Min-Rel	Great Falls Great Falls	2445 2446	16.0 11.0 11.0NPN	15.3* 12.9 10.3	Calcium 0.5-1.0 Phosphorus 1.0 NaCl 0.8-1.1	0.6 1.0 1.3	(1)Vit. A (2)Vit. D	30000 3000	40000 3200
16% Layer	Great Falls	2449	16.0	16.1	Calcium 8.6-10.3 Phosphorus 15.0 NaCl 4.5-5.4 Iodine 0.026 Calcium 3.2-3.5 Phosphorus 0.7 Calcium 0.8-0.9 Phosphorus 0.7	9.5 17.0 5.2 3.3 0.8 1.1 0.9	(1)Vit. A	100000	110000
16% Pig Grower Medicated	Great Falls	2447	16.0	18.4					
40% Feedlot Grower Supplement	Great Falls	2448	40.0 18.5NPN	41.3 19.3	Calcium 3.4-3.7 Phosphorus 1.2 NaCl 6.0-6.5	3.4 1.3 6.5	(1)Vit. A	30000	31000
40% Feedlot Grower Supplement	Conrad	2459	40.0 18.5NPN	37.1* 17.3	Calcium 3.4-3.7 Phosphorus 1.2 NaCl 6.0-6.5	3.1 1.2 6.5	(1)Vit. A (1)Vit. D	30000 3000	37000 4200
38% Layer Concentrate	Conrad	2460	38.0	33.9*	Calcium 6.4-7.2 Phosphorus 2.0 NaCl 1.0-1.5	7.8 2.1 2.0*			
14% Calf Creep Basic 12 Cubes	Glendive Glendive	2644 2645	14.0 12.0	14.6 13.4	Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1	0.4* .66 1.1	(1)Vit. A	10000	8100

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT		MINERALS (C)		(1) VITAMINS-USP UNITS (C) (F)		
			(C)	(F)	(C)	(F)	(C)	(F)	(1) VITAMINS-USP UNITS (C)	(2) DRUGS (C)	(3) CONTAMINANT (C)
37% Swine Grower/Finisher Concentrate	Glendive	2646	37.0	37.0			Calcium 5.4-6.2 Phosphorus 1.7 NaCl 1.9-2.5	4.6 1.7 2.5			
16% Pig Grower	Miles City	2672	16.0	17.8							
32% Feedlot Grower Supplement	Miles City	2673	32.0 18.5NPN	3.53 20.2			Calcium 3.4-3.7 Phosphorus 1.2 NaCl 6.0-6.5	2.4* 1.3 7.0	(1) Vit. A (1) Vit. D	30000 3000	33000 5100
20% Layer	Miles City	2674	20.0	20.6			Calcium 6.5-6.8 Phosphorus 1.2	6.6 1.3			
20% Feedlot Grower Supplement	Lewistown	2823	20.0 10.0NPN	20.2 7.9			Calcium 2.0-2.6 Phosphorus 1.2 NaCl 6.0-6.5	2.5 1.1 5.9	(1) Vit. A (1) Vit. D	30000 3000	28000 3200
16% Pig Grower Medicated	Lewistown	2824	16.0	18.5			Calcium 0.8-0.9 Phosphorus 0.70	1.0 0.70			
32% Basic Dairy Supplement	Lewistown	2826	32.0 12.5NPN	32.8 12.3			Calcium 2.5-3.0 Phosphorus 3.5	2.5 3.3	(1) Vit. A (1) Vit. D	30000 3000	27000 3300
18% Pig Starter/Weaner Medicated	Lewistown	2856	18.0	18.9			Calcium 0.8-0.9 Phosphorus 0.7	0.9 0.7			
Body Builder #1 Bull	Lewistown	2857	13.0 1.0NPN	16.5 1.8*			Calcium 0.4-0.07 Phosphorus 0.3 Calcium 6.4-7.2 Phosphorus 2.0 NaCl 1.0-1.5 Calcium 0.5-0.7 Phosphorus 0.3	0.9* 0.4 5.6 1.8 1.0	(1) Vit. A	5000	4800
38% Layer Concentrate	Lewistown	2855	38.0	38.5							
Body Builder Weaner 10	Great Falls	3113	12.0	11.7					(1) Vit. A (1) Vit. D	5000 500	
Basic 20 (Cube)	Great Falls	3114	20.0 6.6NPN	20.1 6.0			Calcium 0.5-1.0	1.2			

Molas-O-Cake	Great Falls	3116	20.0 20.2 4.9NPN 3.8	Phosphorus 1.0 NaCl 0.9-1.1	1.1 1.1	(1)Vit. A (1)Vit. D	20000 2000	24000 3300
Body Builder 17% Calf. Creep	Great Falls	3115	17.0 18.3	Calcium 0.5-1.0	1.2			
				Phosphorus 1.0	1.1			
				NaCl 0.8-1.1	1.1	(1)Vit. A (1)Vit. D	30000 3000	26000 2700
				Calcium 0.3-0.6 Phosphorus 0.3 NaCl	1.5 6.9 1.8 1.9			
38% Layer Conc.	Conrad	3147	38.0 35.2*	Calcium 6.4-7.2	6.9			
				Phosphorus 2.0	1.8			
				NaCl 1.0-1.5	1.9			
				Calcium 3.4-4.7 Phosphorus 1.2 NaCl 6.0-6.5	3.4 1.1 6.3	(1)Vit. A (1)Vit. D	30000 3000	40000 2900
40% Feedlot Grower Supplement	Conrad	3146	40.0 36.3*	Calcium 0.8-1.0 Phosphorus 0.5	1.0 0.7	(1)Vit. A	6000	5400
				Calcium 2.5-3.0 Phosphorus 3.5	2.9 2.9	(1)Vit. A (1)Vit. A (1)Vit. A	30000 3000 5000	50000 3400 4300
				Calcium 4-4.5 Phosphorus 12 Salt 4.5-5.5	4.2 12.3 5.1	(1)Vit. A (1)Vit. D	100000 30000	100000 27000
				Calcium .9-1.1 Phosphorus .7	1.1 0.8	(1)Vit. A	7000	8000
Body Builder Weaner 10 Med Mimrel 412	Great Falls Dillon	3159 3338	15.0 12.6 21.0NPN 20.0	Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
16% Sow Gestation	Belgrade	3345	16.0 16.9	Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
Body Builder Weaner 5	Belgrade	3342	16.0 16.8 3.5NPN 2.3	Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
Basic 20 (cube)	Belgrade	3343	20.0 20.7 6.6NPN 5.5	Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
Deluxe Creep Pellets	Belgrade	3331	16.0 16.9	Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*
				Calcium .8-1.1 Phosphorus .6 NaCl .9-1.1 Calcium .9-1.1 Phosphorus .9	2.1* 0.6 1.1 1.4 1.1	(1)Vit. A (1)Vit. A (1)Vit. A (1)Vit. D	20000 62500 7500	28000 56000 240000*

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT FIBER	(C) (F)		MINERALS (C)	(F)	(1) VITAMINS-USP UNITS (C)		
			(C)	(F)		(C)	(F)			(2) DRUGS (C)	(3) CONTAMINANT (C)	(F)
Molas-O-Block 14	Belgrade	3341	14.0	14.9				Calcium .5-1.0 Phosphorus .6 NaCl 13.0-16.0	1.0 1.1 14.1	(1) Vit. A (1) Vit. D	20000 2000	30000 6800
Ani-Min-Rel Block	Belgrade	3344	11.0 11.0NPN	13.0 10.7				Calcium 8.6-10.3 Phosphorus 15.0 Salt 4-6 Iodine 0.026	9.5 16.1 5.6 0.029			140000
Big Mo	Belgrade	3346	24.0 16.0NPN	27.6 15.7				Calcium 1.5-2.5 Phosphorus 1.0 Salt 2.5-3.5	2.5 1.1 3.5	(1) Vit. A	100000	15000 3000 3900
Agri Feeds & Service 1518 Dodge Helena, MT 59601	Helena	0001	17.0	16.9						(1) Vit. A	5000	4200
17% Layer Ration Agri Sweet 16% Swine Grower	Helena Helena Helena	0002 0003	12.0 16.0	13.7 13.3								
Beartooth Feed & Grain Red Lodge, MT 59068	Red Lodge	3400	20.0 5.5NPN	19.9 2.2				Calcium 0.1-0.5 Phosphorus 0.6	0.2 0.7	(1) Vit. A	20000	20000
Beartooth Custom Range Cake 20%	Red Lodge	3399	20.0 6.5NPN	22.2 4.6				Calcium 1-2 Phosphorus 0.6 Salt 12-14	0.7 0.7 12.8	(1) Vit. A	20000	17000
Beartooth Custom Range Block 20%	Red Lodge											
Big Horn Calcium Company Warren, MT	Warren	2875						Calcium 38-40	40.0			
Calcium Carbonate												

Big Sky Feed
Box 2799
Great Falls, MT 59403

Big Sky Horse Power	3151	15.0	14.9
Preconditioner	3152	12.0	14.0

(1) Vit. A	6000	5300
100	100	100
200	200	200
300	300	300
400	400	400
500	500	500
600	600	600
700	700	700
800	800	800
900	900	900
1000	1000	1000
1100	1100	1100
1200	1200	1200
1300	1300	1300
1400	1400	1400
1500	1500	1500
1600	1600	1600
1700	1700	1700
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2400	2400	2400
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3000	3000	3000
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3500	3500	3500
3600	3600	3600
3700	3700	3700
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3900	3900	3900
4000	4000	4000
4100	4100	4100
4200	4200	4200
4300	4300	4300
4400	4400	4400
4500	4500	4500
4600	4600	4600
4700	4700	4700
4800	4800	4800
4900	4900	4900
5000	5000	5000
5100	5100	5100
5200	5200	5200
5300	5300	5300
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5900	5900	5900
6000	6000	6000
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7900	7900	7900
8000	8000	8000
8100	8100	8100
8200	8200	8200
8300	8300	8300
8400	8400	8400
8500	8500	8500
8600	8600	8600
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8900	8900	8900
9000	9000	9000
9100	9100	9100
9200	9200	9200
9300	9300	9300
9400	9400	9400
9500	9500	9500
9600	9600	9600
9700	9700	9700
9800	9800	9800
9900	9900	9900
10000	10000	10000

Big Sky Cattle Cake 15% AN	3150	15.0	15.7			
		NPN	0.5			
				Calcium	0.10-0.50	0.3
				Phosphorus	0.60	0.8
				(1)Vit. A		20000
						24000

Big Sky Range 20%	Great Falls	3149	20.0	20.1		
			6.5NPN	3.7		
					Calcium	0.7-1.0
					Phosphorus	1.0
						0.8
						1.1
					(1)Vit. A	30000
						30000

Big Sky Feed & Supply
Box 1402
Billings, MT 59103

Range	20%	3363	20.0	19.6
Billings			6.5NPN	2.1

Calcium	0.7-1	0.7
Phosphorus	1	1.1
		(1) Vit. A
		30000
		34000

Cattle Block 15% AN	3361	15.0	15.8
Billings			

Phosphorus	0.6	0.6
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Range Block 20% AN	3362	20.0	18.9*
Billings			

Salt	12-14	12.6	(1)Vit. A	20000	23000
Salt	12-14	12.6	(1)Vit. A	20000	23000

Big Sky Range	20% AN Cube	Billings	3375	20.0	19.7
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Salt	12.0-14.0	13.7	(1)Vit. A
			30000
			29000

Big Sky Cattle	15% AN	Billings	3376	15.0	15.9

Phosphorus	1.0	1.0	(1) Vit. A	30000	37000
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Phosphorus	0.6	0.6	(1)Vit. A	20000	23000

Bongards Creameries
Bongards, MN 55311

	Great Falls	11.0	13.0
Dried Whey Powder	421		

Bowman Grain & Seed
P.O. Box 396
Hardin, MT 59034

Feed	Hardin	11.9	12.7
Paddock Plus Horse Feed	3365	11.9	12.7

Calcium	.14-.16	0.15	
Phosphorus	0.2	0.4	(1) wt. -
			6250 4500

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT FIBER	(C) (F)		MINERALS (C)	(F)	(1) VITAMINS- USP UNITS (C)			(F)
			(C)	(F)		(C)	(F)			(2) DRUGS (3) CONTAMINANT	(C)	(F)	
Range Cube 20 NPN	Hardin	3366	20.0	17.5				Calcium 0.6-0.7	0.7				
			6.0NPN	5.0				Phosphorus	0.9				
								Salt	1-2	(1) Vit. A	30000		34000
C. B. & F. Culbertson, MT 59218													
Super HI Energy Range Pellet	Culbertson	2664	11.0	13.6				Phosphorus	1.0	(1) Vit. A (1) Vit. D3	20000 5000		23000 6500
Super 14% Bull and Calf Pellets	Culbertson	2665	14.0	14.0									
20% Range Pellet Medicated	Culbertson	2663	20.0	19.9									
			6.6NPN	5.56						(1) Vit. A (1) Vit. D3	30000 7500		33000 12000
Pig Starter Ration MX Med.	Culbertson	2666	18.0	18.1									
Pig Grower	Culbertson	2706	17.0	17.5				Calcium 1.0-1.2	1.2				
Med Crumble	Culbertson	2707	15.0	20.3				Phosphorus .50	0.6				
										(1) Vit. A (1) Vit. D (1) Vit. A (1) Vit. D3	20000 5000 30000 7500		17000 6800 22000 7500
Supper 20 Range Cube	Culbertson	2708	20.0	21.1				Phosphorus 1.0	1.1				
Cargill P.O. Box 9300, Dept. 14 Minneapolis, MN 55440													
Top Calf Starter Ration MED.	Chester	2431	18.0	18.0									
MT. Small Gr. Supple.	Chester	2432	36.0	33.4*				Calcium 4.0-5.0	6.1*	(1) Vit. A (1) Vit. D	8500 4250		21000 4200
								Phosphorus 2.2	3.8				
								NaCl 2.25-3.0	2.61				
Sweet Flow 13 Dairy Pellets	Chester	2433	13.0	14.2									
Feedlot - 32	Lewistown	2834	32.0	30.6				Calcium 7.0-8.0	7.1				
			19.0NPN	21.2*				Phosphorus 0.8	0.5*				
								NaCl 3.5-4.5	5.8	(1) Vit. A	30000		31000
Mont. Small Grain Supple.	Lewistown	2843	36.0	37.9				Calcium 4.0-5.0	4.8				
								Phosphorus 2.2	2.3				
								NaCl 2.25-3.0	2.28				

20% Egg Feed Feedlot 632	Lewistown Lewistown	2833 3354	20.0 32.0 24.4NPN	22.1 32.4 20.1	Calcium 5.5-6.5 Phosphorus .75 NaCl 4.5-5.5	7.3 0.81 4.9	(1)Vit. A	30000	34000
Calf Start Kwik Med 14% Range Cubes Top Hog-16 Pellets Med 5-15 HI-Phos Mineral	Lewistown Lewistown Lewistown Lewistown	3353 2863 2862 2861	12.0 14.0 16.0	12.2 13.6 30.3	Calcium 5.0-6.0 Phosphorus 15.0 NaCl 4.5-5.5 Iodine 0.005	5.6 15.2 5.1 .012	(1)Vit. A	150000	150000
Beef Grower Sun Flower Meal Beef Cake (M600) Med	Chester Culbertson Chester	3142 2705 3143	11.5 28.0	13.7 27.8	Calcium 15.5-16.5 Phosphorus 0.5 NaCl 11.5-12.5	16.3 0.5 11.9	(1)Vit. A (1)Vit. A (1)Vit. D3 (1)Vit. A	20000 30000 5000 4000	28000 23000 11000 29000*
20 Range Cube (c)	Chester	3145	20.0	21.0	Potassium 1.25 Calcium 1.0-2.0 Phosphorus 1.5 NaCl 1.0-1.5	1.92 1.3 1.0* 0.5*	(1)Vit. A (1)Vit. D	25000 12500	28000 18000
Calf Start KWIK (T500) Med Super 38 Dairy Conc	Chester Lewistown	3144 523356	12.0 38.0	23.1 31.2*	Calcium .5-1.5 Phosphorus .5 NaCl 14.0-16.0	1.8 0.6 14.9	(1)Vit. A	30000	30000
Range Block 36	Bozeman	523351	36.0 18.0NPN	35.8 17.3	Calcium 10-11 Phosphorus 13 Salt 5-6	11.0 13.5 5.1	(1)Vit. A (1)Vit. D3	100000 40000	100000 35000
Cattle-Lac Feeds Inc. P.O. Box 9002 Missoula, MT 59807	Missoula	2266							
Cattle Mineral Supplement	Missoula								
Central Feed Co. 220 E. Main Lewistown, MT 59457									

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT	MINERALS (C)		VITAMINS-USP UNITS (C)		
			(C)	(F)		(C)	(F)	(1)VIT. A	(2)DRUGS	(3)CONTAMINANT
Hi-Energy Range-Chief 20	Lewistown	2198	20.0	18.6*	6.6NPN 5.5	Calcium	1.5-1.0			
						Phosphorus	.5			
Pig Grower Pellets Med	Lewistown	2197	16.0	14.3*	2195	NaCl	1.5-1.0	(1)Vit. A	30000	43000
						Calcium	1.5-1.0	(1)Vit. D	5000	8200
Hi-Energy Range Saver	Lewistown	2196	13.5	14.7	2199	Phosphorus	1.0			
						NaCl	1.5-1.0	(1)Vit. A	15000	19000
Kalf Creep	Lewistown	2200	13.0	14.0	2827	Calcium	1.0	(1)Vit. D	3000	2700
						Phosphorus	.50	(1)Vit. A	10000	11000
Swine Finish Pellets	Lewistown	2828	13.0	12.7	2830	NaCl	1.0-1.5	(1)Vit. D3	5000	7700
						Calcium	1.0-1.5			
Beef Performance	Lewistown	2829	16.0	15.6	2864	Phosphorus	2.0			
						NaCl	1.0-1.5			
High Energy Range Chief 20	Lewistown	2865	20.0	18.6*	7.5NPN 6.2	Iodine	0.001	(1)Vit. A	50000	47000
						Calcium	2.0-3.0	(1)Vit. D3	10000	14000
Beef Performance Pellets	Lewistown	2865	13.0	13.6		Phosphorus	2.0	(1)Vit. A	10000	11000
						NaCl	1.0-1.5	(1)Vit. D3	3000	2900
Pig Grower Pellets	Lewistown	2865	13.0	13.6		Calcium	2.0-3.0			
						Phosphorus	2.0			
Medicated	Lewistown	2865	13.0	13.6		NaCl	1.0-1.5			
						Iodine	0.001			
Kalf Creep	Lewistown	2865	13.0	13.6		Calcium	2.0-3.0			
						Phosphorus	2.0			
Hi-Energy Range Vita-50	Lewistown	2865	13.0	13.6		NaCl	1.0-1.5			
						Iodine	0.001			
Sow Gestation Pellets	Lewistown	2865	13.0	13.6		Calcium	2.0-3.0			
						Phosphorus	2.0			
Commercial Grain	Lewistown	2865	13.0	13.6		NaCl	1.0-1.5			
						Iodine	0.001			
E. Northern Ave.	Lewistown	2865	13.0	13.6		Calcium	2.0-3.0			
						Phosphorus	2.0			
Plentywood, MT 59254	Lewistown	2865	13.0	13.6		NaCl	1.0-1.5			
						Iodine	0.001			
Pig Starter Med.	Plentywood	2658	18.0	20.0		Calcium	2.0-3.0			
						Phosphorus	2.0			
15% Phosphorus Range	Plentywood	2659	18.0	20.0		NaCl	1.0-1.5			
						Iodine	0.001			
Mineral	Plentywood	2659	18.0	20.0		Calcium	2.0-3.0			
						Phosphorus	2.0			
	Plentywood	2659	18.0	20.0		NaCl	1.0-1.5			
						Iodine	0.001			

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT FIBER	(C)		MINERALS (C)	(F)	(1)VITAMINS-USP UNITS (C)		
			(C)	(F)		(C)	(F)			(C)	(C)	(F)
Commercial Grain Swine Mineral Mix	Plentywood	2660						Calcium 22.0-25.0	21.8			(F)
							Phosphorus 9.0	10.5			(F)	
							NaCl 12.0-13.0	12.6			(F)	
							Zinc 0.26	0.11*			(F)	
Continental Grain Co. P.O. Box 478 Oulbertson, MT 59218 28% Sun Meal Safflower Meal	Oulbertson	2667	24.0	27.1								
		2668	28.0	24.1*								
		2698	24.0	22.8*								
Farr Better Feed 1406 Industrial Billings, MT 59104 Supp. R580 T180	Sidney	2700	30.0	30.0				Calcium 8.25-8.75	8.69			
			18.5NPN	17.7			Phosphorus 1.20	1.09				
						NaCl 12.25-12.75	12.51	(1)Vit. A	3000	27000		
								(1)Vit. D	3000	3100		
Custom Calf Weaner Supp.	Sidney	2701	18.0	18.6				Calcium .85-1.35	1.26			
			3.27NPN	3.5			Phosphorus 1.50	1.50				
						NaCl 9.75-10.25	9.79	(1)Vit. A	3000	35000		
								(1)Vit. D	3000	3900		
Farr Better Feeds P.O. Box 20462 Billings, MT 59104 20% Supreme Range Cube Nap	Billings	3377	20.0	20.5				Calcium 0.9-1.1	0.9			
						Phosphorus 1.0	1.0					
						Salt 0.9-1.1	1.1	(1)Vit. D	20000	24000		
						Calcium 3.4-3.6	3.6					
17% Egg Layer	Billings	3379	17.0	20.4			Phosphorus 0.8	1.1				
Lamb Grower (H)	Billings	3380	15.0	15.6				Calcium .55-.7	0.67			
			0.66NPN	1.1*			Phosphorus 0.4	0.6				
15% Sow Gestation	Billings	3378	15.0	16.3				Salt 1.4-1.6	1.4	(1)Vit. A	8000	8200
								Calcium 0.7-0.8	1.2			
								Phosphorus 0.65	0.69			

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT FIBER	MINERALS (C)		(1) VITAMINS-USP UNITS (C)		
			(C)	(F)				(2) DRUGS (C)		
			(3) CONTAMINANT (C)							
Mono Phos	Billings	3381				Phosphorus	24.0	23.9		(F)
						Florine	0.24	0.2		(F)
Farrell Chemical Co. 705 2nd Ave. Seattle, WA 93104										
	Hamilton	2273	20.0	25.5		Calcium	1-1.5	1.1	(1)Vit. A	21000
			8.0NPN	11.0		Phosphorus	1.0	1.2	(1)Vit. D3	7500
Dale Fellman Feed Jordan, MT 59337										
	Miles City	2670	14.0	13.9		Calcium	0.75-1.25	0.95		
						Phosphorus	0.5	0.5	(1)Vit. A	17000
The Depot 14						NaCl	0.25-0.75	1.2*	(1)Vit. D3	5800
	Miles City	2671	12.0	13.7		Calcium	0.5-1.5	0.4		
						Phosphorus	.5	0.4	(1)Vit. A	14000
R R M 600 Med.	Miles City	2669	13.0	12.5*		NaCl	1.0-2.0	0.8	(1)Vit. A	96000
						Phosphorus	1.5	0.7	(1)Vit. A	
GTA A Harvest States Co. P.O. Box 1447 Sioux Falls, SD 57117										
	Chinook	2435	38.0	38.4		Calcium	2.74-4.75	4.7		
						Phosphorus	2.25	2.5	(1)Vit. A	5200
Beef Marketer BVT 300 Med.	Chinook	2436	38.0	37.9		NaCl	1.5-2.5	1.69		
			18.9NPN	17.6		Calcium	4.-5.	4.7		
						Phosphorus	1.0	0.6*	(1)Vit. A	24000
GTA Box 427 Chinook, MT 59523						NaCl	1.25-2.25	5.2*	(1)Vit. D3	7900

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MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT	MINERALS (C)		(1)VITAMINS-USP UNITS(C) (2)DRUGS (3)CONTAMINENT		
			(C)	(F)		(C)	(F)	(C)	(C)	(F)
Hi-En 12	Glendive	2648	12.0	12.5		Calcium 0.5-1.5 Phosphorus .5 NaCl 0.25-1.25	1.2 0.58 .045	(1)Vit. A	10000	11000
Head Start 70 Hi-en 12	Great Falls Great Falls	3118 3119	12.0 12.0	13.5 13.8		Calcium 0.5-1.5 Phosphorus 0.5 NaCl 0.25-1.25	0.7 0.5 0.43	(1)Vit. A (1)Vit. D3	10000 2000	12000 2300
C & C 16	Great Falls	3121	16.0 5.5 NPN	16.5 3.0		Calcium 0.75-1.75 Phosphorus 1.0 NaCl 1.0-2.0	1.45 1.0 1.7	(1)Vit. A (1) Vit. D3 (1)Vit. A	30000 6000 2000	33000 6500 2400
Complete Horse Feed MI EN 12	Chinook Chinook	3137 3139	13.0 12.0	14.9 15.0		Calcium 0.5-1.5 Phosphorus 0.5 NaCl 0.25-1.25	0.8 0.5 1.05	(1)Vit. A (1)Vit. D3	10000 2000	14000 2900
Six In One	Chinook	3140	38.0	39.1		Calcium 3.75-4.75 Phosphorus 2.25 NaCl 1.5-2.5	5.8* 2.51 1.7	(1)Vit. A (1)Vit. D3	6000 1000	6000
C & C 16	Chinook	3138	16.0	18.4		Calcium 0.75-1.75 Phosphorus 1.0 NaCl 1.0-2.0	1.51 1.1 1.8	(1)Vit. A (1)Vit. D3	30000 6000	37000 9200
Kalf Kik Med	Chinook	3136	14.0	15.9		Calcium 0.5-1.5 Phosphorus 0.5 NaCl 0.5-1.5	0.6 0.5 1.4	(1)Vit. A	5000	6400
C & C 16 Block	Great Falls	3160	16.0 5.5NPN	15.8 4.7		Calcium 0.75-1.75 Phosphorus 1.0 Salt 8-9.5	1.58 1.0 11.0	(1)Vit. A (1)Vit. D3	30000 6000	38000 6500
Bull & Feedlot Developer	Great Falls	3162	12.0	12.6				(1)Vit. A (1)Vit. D3	2500 5000	9800 6600
Head Start 70 Med	Great Falls	3161	1.5NPN 12.0	0.2 12.5				(1)Vit. A (1)Vit. A		

Custom 20 Block	Hardin	3374	20.0 6.6NPN	18.1* 5.6	Calcium Phosphorus Salt	1.5 0.5 9.0	1.2 0.6 9.0	(1)Vit. A (1)Vit. A (1)Vit. A	2000 5000 2000	16000 6200 2300
Head Start 70 Med Lamb Finisher	Hardin Hardin	3371 3373	12.0 12.0	11.9 12.6						
Ranger Cube	Hardin	3370	3.0NPN 22.0 7.5NPN	0.3 21.5 6.3	Calcium Phosphorus Salt	1.2 0.5 2.4				
Six-In-One	Hardin	3372	38.0	39.2	Calcium Phosphorus Salt Zinc	3.75-4.75 2.25 1.5-2.5 0.05	4.15 2.34 1.2 0.04			
MT Range Block	Lewistown	3355	14.0	14.0	Calcium Phosphorus NaCl	.4-1.0 .6 12.5-15.0	1.0 .5 6.0*	(1)Vit. A (1)Vit. D	15000 7500	14000 2700*
Golden Valley Packing Roberts, ID 83444										
Meat Meal	Belgrade	522265	50.0	46.5*						
Gold Lable Feeds Grandin, ND 58038										
15% Range Mineral	Bainville	2661			Calcium Phosphorus NaCl Iodine	3.5-4.5 15.0 9.5-10.5 0.075	4.1 16.0 9.0 .077			
38% Pork Maker	Bainville	2662	38.0	37.3	Calcium Phosphorus NaCl Iodine Zinc Potassium	5.0-5.5 2.6 1.0-2.0 0.0022 0.120 1.25	4.7 2.5 1.4 .0034 0.10 1.41	(1)Vit. A (1)Vit. D3	125000 25000	150000 25000
38% Pork Maker	Bainville	2709	38.0	37.9	Calcium Phosphorus Salt Zinc Potassium Copper Selenium	5.5-6.0 2.3 1.0-2.0 0.112 1.25 0.0875 0.000067	5.8 2.4 1.5 0.11 1.53 0.0865 0.000083	(1)Vit. D3 (1)Vit. A (1)Vit. D3	4500 21000 2000	13000 4100

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT	FIBER		MINERALS (C)		(2)DRUGS (3)CONTAMINANT	(1)VITAMIN			
			(C)	(F)		(C)	(F)	(C)	(F)		(C)	(F)		
3290 Beef Supplement	Bainville	2710	32.0	36.8				Calcium	1.5-2.5					
			9.8NPN	15.1*			Phosphorus	1.0						
							NaCl	2.0-3.0	(1)Vit. A	40000		41000		
							Potassium	2.0	(1)Vit. D3	4000		3600		
Hubbard Millings Co. Mankato, MN 56001														
Energy Cake	Glendive	2650	12.0	12.6				Calcium	7.0-8.0		(1)Vit. A	5900*		
		2651 2652	14.0	13.7			Phosphorus	16.0		(1)Vit. D3	4500	2300*		
							NaCl	8.0-10.0						
14% Creed feed Med. Rangeland 16	Glendive	2652						Iodine	0.0056			360000		
							Potassium	4.0						
20% Western Cake	Sidney	2702	20.0	20.5				Calcium	1.0-2.0					
			7.10NPN	6.0			Phosphorus	0.8						
14% Calf. Creep 166 Horse Mineral	Sidney Sidney	2703 2704	14.0	14.4				NaCl	2.0-3.0	(1)Vit. A	30000	15000*		
Kalispell Feed & Grain P.O. Box 1075 Kalispell, MT 59901	Kalispell Kalispell	0642 1041	13.0	12.8				Calcium	14.5-16.0					
								Phosphorus	12.0					
								NaCl	8.0-10.0	(1)Vit. A	80000		38000*	
								Potassium	4.0	(1)Vit. D	8000		4600*	
Complete Horse Cubes 20% Range Cubes	Kalispell	1242	36.0	34.7										
Carnation Range Lix 36	Kalispell	1242	36.0	34.7										
Carnation Range Lix 36	Kalispell	1242	36.0	34.7										
Carnation Range Lix 36	Kalispell	1242	36.0	34.7										
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Carnation Range Lix 36	Kalispell	1242	36.0	34.7										

La Budde Feed & Grain Co.
Box 23227
Milwaukee, WI 53223

Bone Meal	Terry	2677				Calcium Phosphorus	22.0 14.0	27.0 20.0		
Lake Milling, Inc. Hamilton, MT 59840										
Sow G & L 14% Cow Cake	Hamilton Hamilton	2147 2154	15.0 14.0	16.0 13.5						
			3.0NPN	2.9		Phosphorus	0.5	0.4	(1)Vit. A (1)Vit. D3	10000 5000 8300 4900
Lakeland Feeds 16% Duall Layer	Hamilton	2191	16.0	17.5		Calcium Phosphorus NaCl	2.5-3.5 .7 .4-.9	3.4 0.66 0.5		
28 Day Cattle Conditioner 20% Cow Cake	Hamilton Hamilton	2271 2272	14.0 20.0	15.1 20.9		Calcium Phosphorus Salt	0.0 1.0 0.0	1.2 0.8 1.5	(1)Vit. A (1)Vit. D	12000 20000 10000 13000 2500
Loomix, Inc. Box 490 Arroyo Grande, CA 93420										
Loomix #5 Range	Conrad	2461	24.0 16.5	24.1 15.2*		Phosphorus NaCl	1.0 2.0-3.0	1.2 10.7*	(1)Vit. A (1)Vit. D3	20000 5000 37000 9900
Loomix-Summer	Conrad	2462	12.5 4.0NPN	11.6* 1.7		Phosphorus NaCl	0.4 2.0-3.0	0.4 3.2	(1)Vit. A (1)Vit. D3	20000 5000 34000 11000
Loomix 5 Range BR 5S-MT	Fairview	2632	24.0 16.5	22.5* 12.8		Phosphorus	1.0	1.2	(1)Vit. A (1)Vit. D	20000 5000 28000 11000
Loomix #5 Range BR5S	Billings	3357	24.0 16.5NPN	23.4 14.0		Phosphorus Calcium	1.0 2.0-3.0	0.9 3.0	(1)Vit. A	20000 40000 19000
Loomix II Block 12%	Billings	3360	12.0	13.7		Phosphorus Magnesium	1.0 2.5	1.1 3.2	(1)Vit. A (1)Vit. D	41000 6000 14000

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT FIBER	MINERALS (C)		(1)VITAMINS-USP UNITS(C)		
			(C)	(F)		(C)	(F)	(C)	(F)	(F)
Loomix II Block 20%	Billings	3359	20.0	21.4		Calcium	2.0-3.0			
			13.0NPN	12.5		Phosphorus	1.5			
Loomix - Summer BSIS	Billings	3358	10.0	12.2		Magnesium	3.0			
			4.0NPN	0.8		Phosphorus	0.4		(1)Vit. A	20000
McBlairs Feed Service Co. Star Rt. "A" Twin Bridges, MT 59754								(1)Vit. D	5000	7900
Moranol Premium Supplement	Twin Bridges	2259				Calcium	.2-1.2			
						Phosphorus	1.0			
Morea Plus Supplement	Twin Bridges	2260	45.0	44.5		Calcium	.2-1.2			
			44.0	41.1		Phosphorus	1.0			
Missoula Feed & Grain Co. P.O. Box 3717 Missoula, MT 59806	Helena	0006	36.0	36.0						
Super Swine 36 Poultry Concentrate 36% Hi Phos 15	Helena	0004	36.0	37.7		Calcium	6.0-7.0			
						Phosphorus	15.0			
Missoula	Missoula	2268				Salt	2.0-3.0			
								(1)Vit. A	300000	310000
Calf Developer "15"	Missoula	2267	15.0	16.1				(1)Vit. D3	64000	150000
Rabbit Ration 16-18	Missoula	2269	16.5	17.2						
50% Meat Meal	Choteau	2429	50.0	50.8						
Rabbit Pellet	Missoula	3027	16.0	15.7						
20% Range Supplement	Missoula	3026	20.0	20.2		Calcium	2.0-3.0			
			6.5NPN	7.0		Phosphorus	1.0			
Layer Ration "20"	Missoula	3204	20.0	22.2		NaCl	1.0			
								(1)Vit. A	20000	30000
Nash Brothers Box 405 Scobey, MT 59263										

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT		FIBER		MINERALS (C)	(F)			(1) VITAMINS-USP UNITS (C)			(F)		
			(C)	(F)	(C)	(F)	(C)	(F)		(F)	(F)	(C)	(C)	(C)	(F)	(F)	(F)	
Ralston Purina Checkerboard Square St. Louis, MO 63164	Onolene	2247	16.0	13.7*					Calcium	3.2-4.2	3.4							
	Farm Blend Hog Chow W/O	2248	36.0	37.7					Phosphorus	1.7	1.7							
									NaCl	2.3-3.3	2.9							
	Sup-R-Block #2	2249	24.0	25.6														
			16.0NPN	13.9														
	Preconditioning/Receiving Chow	2275	12.0	14.1														
			2.0NPN	1.3														
	Bull Developer	2276	12.0	13.2														
			2.0NPN	1.1														
	Sup R Block #2	3339	24.0	27.9					Calcium	1.5-2.5	2.3							
			16.0NPN	14.6				Phosphorus	1.0	1.2								
								Salt	2.5-3.5	4.2		(1)Vit. A	15000				15000	
								Magnesium	2.0	3.3		(1)Vit. D	3000				2800	
Purina Show Chow 32	Dillon	3337	32.0	32.7				Calcium	3.0-4.0	4.0								
								Phosphorus	0.8	0.9								
								Salt	3.5-4.5	4.0		(1)Vit. A	26000				26000	
												(1)Vit. D	2000				2200	
Forage Balancer Block 4	Dillon	3336	20.0	21.6				Calcium	0.5-1.5	1.9								
			12.0NPN	8.6				Phosphorus	0.7	0.7								
								Salt	18.0-21.0	20.6		(1)Vit. A	15000				20000	
Purina Steer Chow 40(G)	Scobey	2655	40.0	35.7*				Calcium	5.0-6.0	5.7								
			32.0NPN	27.0				Phosphorus	0.8	0.88								
								NaCl	3.5-4.5	3.8								
								Calcium	3.0-4.0	3.8								
								Phosphorus	1.45	1.46								
								NaCl	1.8-2.8	2.1								
								Calcium	2.0-3.0	3.2		(1)Vit. A	15000				23000	
								Phosphorus	1.35	1.43								
								NaCl	1.3-2.3	1.5								
Hog Chow 100 TN	Scobey	2656	36.0	36.0														
Pig Chow 40-250 Med.	Scobey	2657	40.0	39.5														

Forage Balancer	Ronan	3038	20.0 12.0NPN	19.9 7.8	Calcium .5-1.5 Phosphorus .7 NaCl 18.0-21.0	0.81 0.6 21.8	(1)Vit. A	15000	16000
Redmond Clay & Salt Co. Box 1117 Redmond, UT 84652									
Natural T. M. Salt	Lewistown	523030			Calcium 1.35-.35 NaCl 93.0-98.0 Potassium .16 Magnesium .18 Iron .08	0.59 94.1 0.13 0.14 0.12			
Saco Dehy Box 268 Saco, MT 59261									
Dehydrated Alfalfa	Saco	2636	17.0	16.0*					
Squire Products Company Box 43594 St. Paul, MN 55164									
Big-R-Lic 14	Fairview	2634	14.0	16.3	Calcium 3.5-4.5 Phosphorus 1.5 NaCl 2.5-3.5 Magnesium 2.5	3.7 1.65 4.4 3.8	(1)Vit. A (1)Vit. D3	40000 5000	28000 6400
Standard Chemical Box 3844 - 701 S. 42nd St. Omaha, NE 68103									
Dairy Fine-80 No. 2 Med.	Billings	2847	80.0 59.0	73.8* 51.6	Calcium 2.0-3.0 Phosphorus 1.3	3.8* 1.9	(1)Vit. A (1)Vit. D3	100000 100000	130000 150000
Top Producers Pre-Mix L	Billings	2846			Calcium 18.0-21.8 Phosphorus 9.7 NaCl 6.5-8.0	16.0 9.5 8.5	(1)Vit. A (1)Vit. D3	86000 14000	110000 12000
Vitamin Pre-Mix for Ruminants	Billings	2848					(1)Vit. A (1)Vit. D3	600000 100000	640000 130000

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT		MINERALS (C)		VITAMINS-USP UNITS (C)		
			(C)	(F)	(C)	(F)	(C)	(F)	(1) VIT. A	(2) DRUGS	(F)
			(C)	(F)	(C)	(F)	(C)	(F)	(3) CONTAMINANT	(C)	(F)
Cattle Booster	Billings	2849					Calcium 2.0-3.0 Phosphorus 5.0 NaCl 18.0-21.6	3.0 5.6 17.5			
Insta-Mix Milk Replacer	Billings	2850	22.0	21.8					(1) Vit. A	155000	220000
Stevensville Feed & Fuel Stevensville, MT 59870									(1) Vit. D3	15500	26000
20% Range Feed	Stevensville	2189	20.0	18.2*					(1) Vit. A	15000	13000
13% Dairy Feed	Stevensville	2188	7.5NPN 13.0	0.6 11.8*					(1) Vit. D3	5000	3600
TSC Ind. Inc., 915 Murfreesboro Nashville, TN 32217			2.0NPN	0.4							
Retriever High Protein Catfood	Billings	0552	30.0	33.2					(1) Vit. A	30000	27000
Triple "F" Feeds Box 3600 Des Moines, IA 50322											
6-12A Livestock Min. Mix	Choteau	2426					Calcium 6.5-5.5 Phosphorus 12.0 Magnesium 2.0	5.8 12.0 2.9	(1) Vit. A	200000	205000
Nutri-Power Pig Starter #1, #2010 Med.	Choteau	2427	22.0	21.3					(1) Vit. D3	200000	210000
Nutri Power Pre Weaner #2005	Choteau	3123	24.0	25.7							
Laver Wee Mix #1400	Choteau	3126	15.0	15.0			NaCl 25.0-30.0	29.1			
Ruminant Premix #4970	Choteau	3122					Calcium 9.0-10.0	12.3	(1) Vit. A	200000	170000
6-12A Lvst. MJ Mix #9400	Choteau	3124					Calcium 5.50-6.50 Phosphorus 12.0 Magnesium 2.0	5.7 12.0 2.5	(1) Vit. D3	800000	870000
									(1) Vit. A	200000	180000
									(1) Vit. D3	200000	210000

Valco Agri Service
Box 129
Glasgow, MT 59230

Layer 20	Glasgow	2640	20.0	21.6	Calcium 4.0-5.0 Phosphorus 1.0 NaCl .25-.50	4.4 1.1 0.51	(1)Vit. A	6000	6000
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Showing	Glasgow	2641	12.0	12.5					
Hog Finisher 13	Glasgow	2642	13.0	15.1					

Walton Feed Inc.
P.O. Box 52
Casche Junction, UT 84304

Walton's 0-11 Hi-Phos	Dillon	3340			Calcium 0-0.2 Phosphorus 11.0 Salt 36.0-38.0 Potassium 2.0 Magnesium 1.5	0.5* 11.9 36.2 2.0 1.8	(1)Vit. A (1)Vit. D	120000 40000	160000 42000
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Western Seed & Supply
1308 Round Butte Rd. West
Ronan, MT 59864

Range Cake 20 W	Ronan	2187	20.0	21.0	Phosphorus 1.0	1.03	(1)Vit. A	20000	19,000
			6.5NPN	7.3					

Western States Industries
Box 855
Choteau, MT 59422

Nutri Supreme Med. W51#2110 Choteau		2428	22.0	22.6					
Nutri Supreme Med. W51#2110 Choteau		3127	22.0	23.2					

Western Hatchery & Feed 400 49th St. South Great Falls, MT 59405 Top Notch Chick Starter M-125 Med.	Great Falls	2422	20.5	18.1*					
Poultry Top Notch 36 M410	Great Falls	3129	36.0	36.0	Calcium 4.0-5.0 Phosphorus 2.0	5.2 2.2			
Top Notch 38% Poultry Conc.	Great Falls	3131	38.0	38.1					
Top Notch Cage Layer 16	Great Falls	3130	16.0	18.7					
Top Notch High Energy Broiler Finisher	Great Falls	3132	18.0	32.5					
Chick Starter M 125 Med.	Great Falls	3133	20.5	24.4					

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	FAT (F)	MINERALS (C)	(1)VITAMINS-USP UNITS(C) (2)DRUGS (3)CONTAMINENT	(F)
West-Tech Inc. Winifred, MT 59489							
Honey-Lix	Lewistown	523033	12.0	12.7	Calcium 1.0	1.0-2.0 2.3	45000
			0.0	1.0*	Phosphorus 1.2	(1)Vit. A (1)Vit. D	7200
Westway Corp. 1320 South 24th St. West Billings, MT 59102							
Liquid Feed Supplement for Cattle	Three Forks	2242	10.43	13.3	Calcium 5.97-6.97		
			5.9NPN	8.2*	Phosphorus .75		
					NaCl 5.23-6.23	(1)Vit. A (1)Vit. D	27000
							6500
Mega-Licks	Bozeman	3350	12.0	14.6	Calcium 2.0-3.0		
					Phosphorus 1.5	(1)Vit. A	40000
					Magnesium 2.5	(1)Vit. D	12000
Williams Feed Inc. 235 N. Idaho Dillon, MT 59725							
Range Booster Block	Helena	5	20.0	20.5	Calcium 1.0-2.0		
			7.5NPN	6.3	Phosphorus 1.0		
					Salt 11.0-13.0	(1)Vit. A (1)Vit. D	63000
							8700
Horse Ration 14% Steer Feed	Dillon	2245	12.0	13.6			
	Dillon	2246	14.0	13.7			
			1.6NPN	1.9*			
Horse Ration	Dillon	2711	12.0	14.1			
Range Booster Block	Dillon	2714	20.0	21.6			
			7.5NPN	6.5	Calcium 1.0-2.0	(1)Vit. A	12000
					Phosphorus 1.0		
					Salt 11.0-13.0	(1)Vit. A (1)Vit. D	30000
							7000

Hi Energy Cake	Dillon	2713	13.0	15.2	Calcium Phosphorus Salt	0.0 0.6 0.0	1.1 0.5 1.1	(1)Vit. A	10000	14000
14% Steer Ration	Dillon	2712	14.0	13.1				(1)Vit. A		
			1.6NPN	1.3				(1)Vit. A	4000	5800

Pet Foods

All W. Pet Supply
1300 Lamar
Lakewood, CO 80215

Bar-B Alfalfa Treats
Billings

Alpo Pet Foods Inc.
P.O. Box 2187
Allentown, PA 18001

Hosemeat Chunks & Beef
Byproducts Dinner
Kalispell

American Nutrition
P.O. Box 1405
Ogden, UT 84402

AgriBasics, Conagra
Box 671
Knoxville, TN 37091

Beatrice Foods
P.O. Box 58
Nashville, TN 37202

Black & White Corp.
Seattle, WA 98103

Generic Dog Food
Billings

Bumble Bee Seafoods
P.O. Box X-1017
San Diego, CA 92112

Figaro Brand Tuna Cat Food
Billings

(1) VITAMINS--USP UNITS (C) (F)
 (2) DRUGS (C) (F)
 (3) CONTAMINANT (C) (F)

MINERALS (C) (F)

FAT (C) (F)
 FIBER (C) (F)

PROTEIN (F)

SAMPLE NUMBER (C) (F)

PLACE OF COLLECTION

MANUFACTURER, BRAND and PRODUCT NAME

Carnation Co.
 5045 Wilshire Blvd.
 Los Angeles, CA 90036

Come 'n Get It 4-Flavor

Dog Food

Friskies Meat Flavor

for Dogs

Mighty Dog Beef for Dogs

Fancy Feast Savory

Salmon Feast

Friskies Buffet for Cats

(liver & Chicken)

Dock Salvage Mixed

2341 Broadwater Avenue

Billings, MT 59102

Dog Food

Farmers Union Cen. Exch.

Box 43089

St. Paul, MN 55101

The Hervin Co.

6150 SW Nyberg Rd.

Tualatin, OR 97062

Capitol Cat Food

Capitol Dog Food

BLU MTN Special Menu for

Cats, Chicken, Tuna,

& Milk Flavors

Hills

Box 148

Topeka, KS 66601

KD Dietary Animal Food

CD Dietary Food

Kal Kan Foods Inc.
 Vernon, CA 90058

Great Falls 0526 21.0 22.9

Choteau 0529 9.0 8.9

Lewistown 0534 11.0 10.9

Lewistown 0535 13.0 14.1

Lewistown 0537 11.0 11.8

Billings 0553 18.0 21.2

Laurel 0556 30.0 34.2

Great Falls 0524 8.0 8.2

Great Falls 0525 8.0 7.9

Great Falls 0527 30.0 31.4

Sidney 0545 3.5 4.4

Sidney 0546 12.0 14.1

Ash

1.5

1.4

Kal Kan Simmered Supper Mealtime for Finicky Eaters	Sidney	0540	10.0	11.3
Crunkly Beef Dinner	Sidney	0541	10.0	10.5
	Sidney	0542	10.0	10.3
Nabisco Brands, Inc.	Lewistown	0538	20.0	21.6
National Brands Div. Park Ridge, IL 60068				
Parade Chicken, Parts & Liver Cat Food	Great Falls	0530	11.0	11.2
Perk Foods Co. 772 Tuna St. Terminal Island, CA 90731				
Vets Dog Food	Kalispell	0566	8.0	9.8
The Quaker Oats Co. 345 Merchandise Mart Plaza Chicago, IL 60654				
Burger'n Bones Cheese	Kalispell	0563	22.0	18.3*
Ralston-Purina, Checkerboard Square St. Louis, MO 63164				
Meow Mix	Great Falls	0522	30.0	30.4
Bonz Original	Great Falls	0523	13.0	14.1
Purina 100 Tuna Cat Food	Great Falls	0528	20.0	19.9
Rockford Farms P.O. Box 4000 Chicago, IL 60654				
Generic Medium Dog Biscuits	Billings	0549	22.0	23.6
Generic Dry Cat Food	Billings	0550	30.0	32.7
Roundup Co. 3800 SE 22nd Ave. Portland, OR 97202				

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN		FAT		MINERALS (C)		(1) VITAMINS-USP UNITS (C)		
			(C)	(F)	FIBER	(C)	(F)	(F)	(2) DRUGS	(3) CONTAMINANT	(F)
Deluxe Dinner Cat Food (Fred Meyer)	Kalispell	0565	12.5	14.5							
Fred Meyer Dry Cat Food	Kalispell	0564	30.0	31.0							
Safeway Stores Oakland, CA 94660											
Liver Flavor Cat Food	Sidney	0543	10.0	9.9							
Dog Food	Sidney	0544	10.0	9.9							
Star-Kist Foods, Inc. 582 Tuna St. Terminal Island, CA 90731											
Jerky Treats Dog Snacks											
Bacon Flavor	Kalispell	0560	33.0	41.6							
9-Lives & Chicken Dinner Cat Food	Kalispell	0561	31.5	31.8							
Superior Pet Products, Inc. 122 Quincy Shore Dr. Quincy, MA 02171											
Chewiez	Miles City	0539	70.0	83.3							
Tuffy's Pet Food 145 1st Ave. N. P.O. Box 190 Perham, MN 56573											
Tuffys Golden Crunks Dog Food	Billings	0551	21.0	21.6							
Tyrrell's Inc. 155 N. 35th St. Seattle, WA 98103											
Red Label Brand Dog & Cat Food	Billings	0548	10.0	10.9							
Vitakraft Duett 134-10 32 Ave. Flushing, NY 11354											

Vitakraft ChitChat for Parrots	Billings	0555	26.0	26.5
Wardley Prod. Co. Inc. 1 Aquarium Dr., Box 2515 Secaucus, NJ 07094				
Wardleys Guppy Food Flakes	Great Falls	0531	40.0	41.7
W. Coast Grocery Co. 495 E. 19th, P.O. Box 1834 Tacoma, WA 98401				
Capitol Brand Cat Food	Billings	0559	8.0	8.1

MONTANA COMMERCIAL FEED REPORTED

FOR 1984

<u>FORMULA FEEDS</u>		<u>NO. OF TONS</u>	<u>FEED INGREDIENTS</u>	<u>NO. OF TONS</u>
1. Broiler Feeds	Complete Supplement	2,157 16	1. Alfalfa Products 2. Animal Products	2,621 857
2. Turkey Feeds	Complete Supplement	190 90	3. Barley Products 4. Beet Products	454 22,857
3. Starter-Grower (Egg-type)	Complete Supplement	2,602 99	5. Brewers Products 6. Cottonseed Products	0 2,901
4. Layer-Breeder (Egg-type)	Complete Supplement	9,525 635	7. Distillers Products 8. Fats & Oils	1,260 157
5. Beef Feeds	Complete Supplement	79,655 78,599	9. Linseed & Flax Products 10. Maize Products	16 202
6. Dairy Feeds	Complete Supplement	5,665 8,655	11. Marine Products 12. Milk Products	12 69
7. Swine Feeds	Complete Supplement	7,603 15,138	13. Mineral Products 14. Molasses	9,643 27,763
8. Sheep Feeds	Complete Supplement	1,514 192	15. Oat Products 16. Rye Products	209 0
9. Horse Feeds	Complete Supplement	3,687 1,371	17. Vitamin Products 18. Soybean Products	183 2,115
10. Mineral Feeds	Complete Supplement	546 18,231	19. Urea 20. Wheat Products	1,291 28,317
11. Miscellaneous		11,954 6,539	21. Miscellaneous Products	10,671 5,056
TOTAL FORMULA FEED TONNAGE		<u>254,663</u>	TOTAL INGREDIENT TONNAGE	<u>116,654</u>
			TOTAL COMMERCIAL FEED	<u>371,317</u>

1984 FEED ANALYSIS BREAKDOWN

COMMERCIAL	NO ANALYZED	NO. OUT OF TOLERANCE	% OUT OF TOLERANCE	PET FOODS	NO. ANALYZED	NO. OUT OF TOLERANCE	% OUT OF TOLERANCE
Protein	245	37	15.1	Protein	43	1	2.3
NPN	80	10	12.5				
Fat	2	0	—				
Fiber	2	0	—				
Calcium	147	13	8.8				
Phosphorus	156	4	2.6				
NaCl	108	8	7.4				
Iodine	8	0	—				
Magnesium	10	0	—				
Copper	1	0	—				
Iron	1	0	—				
Sulfur	1	0	—				
Zinc	4	1	—				
Potassium	7	0	—				
Selenium	2	0	—				
Flourine	1	0	—				
Amprolium	3	0	—				
Vit A	146	4	2.7				
Vit D	87	3	3.4				

YEAR	NO. SAMPLES TAKEN	NO. OUT OF TOLERANCE	% OUT OF TOLERANCE
1977	368	124	34
1978	401	105	26
1979	231	39	17
1980	437	62	14
1981	251	73	29
1982	332	82	25
1983	354	72	20
1984	266	64	24

YEAR	FEED TONNAGE
1976	391,176
1977	339,946
1978	322,452
1979	412,113
1980	373,463
1981	331,625
1982	318,312
1983	365,620
1984	371,317

**MONTANA DEPARTMENT OF AGRICULTURE
PLANT INDUSTRY DIVISION
AGRICULTURE/LIVESTOCK BLDG.
CAPITOL STATION
HELENA, MT 59620**

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